

CLAIMS

5 1. A method for producing a flexion resin hose, comprising a step for allowing high temperature fluid to flow into a hose made of thermoplastic resin to heat said hose, a step for bending said heated hose, and a step for allowing cold temperature fluid into said hose to cool and harden said hose.

10 2. A method for producing a flexion resin hose, comprising a step for allowing high temperature fluid to flow into a hose made of thermoplastic resin to heat said hose, a step for restricting the flow of said high temperature fluid downstream of said hose to pressurize an interior of said hose, a step for bending said heated hose, and a step for allowing cold temperature fluid into said hose to cool and harden said hose.

15 3. A method for producing a flexion resin hose according to claim 1, ~~or 2~~, wherein said hose is bent while blowing cooling fluid onto a neutral line along a bent portion of said hose.

20 4. A method for producing a flexion resin hose in which said hose is made of thermoplastic resin, said hose is provided at its one portion in its axial direction with a corrugated portion, said corrugated portion has uneven characteristics in its circumferential direction with respect to tensile strength in an axial direction thereof, said method comprising a heating and pressurizing step for allowing high temperature and high pressure fluid into said hose to heat and pressurize said hose and for bending said corrugated portion of said hose by an internal pressure, and a cooling step for allowing cold

temperature fluid into said hose to cool and harden said hose.

5. A method for producing a flexion resin hose according to claim 4, wherein said hose is held by first and second holding tools located at a predetermined distance from each other, and said heating and pressurizing step and said cooling step are carried out in a state in which at least one of said first and second holding tools can be displaced with respect to the other one.

6. A method for producing a flexion resin hose according to claim 4 or 5, wherein said hose is formed at its plurality of portions in its axial direction with corrugated portions, an uneven characteristic in said circumferential direction of said corrugated portion is determined for each of said corrugated portions.

7. A method for producing a flexion resin hose according to any one of claims 1 to 6, wherein said high temperature fluid is vapor, and said cold temperature fluid is water.

8. A method for producing a flexion resin hose according to any one of claims 4 to 7, wherein said heating and pressurizing step is carried out using an internal pressure of 80 or 90% of hoop stress.

9. A method for producing a flexion resin hose according to any one of claims 4 to 8, wherein said heating and pressurizing step is carried out at a temperature higher than a temperature in an environment where said hose is used.

10. A method for producing a flexion resin hose according to any one of claims 4 to 9, wherein said hose is made of polyamide,

and said heating and pressurizing step is carried out at 130 to 140°C and 2.7 to 3.7 atmospheric pressure.

11. A method for producing a flexion resin hose according to any one of claims 4 to 9, wherein said hose is made of polypropylene, and said heating and pressurizing step is carried out at 110 to 130°C and 2.2 to 3.0 atmospheric pressure.

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